

COMBINED DECLARATION AND POWER OF ATTORNEY

As a bel w named inv nt r, I h r by declar that:

This declaration is of the following type:

- ☒ original
☐ divisional
☐ continuation
☐ continuation-in-part

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ADVANCES IN SPIKE ANNEAL PROCESSES FOR ULTRA SHALLOW JUNCTIONS**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☐ is attached hereto
☒ was filed on **9/22/2003**, under Serial No. 10/688,682, executed on even date herewith; or
☐ Express Mail No.(as Serial No. not yet known) and was amended on _____ (if applicable)
☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☐ No such applications have been filed.

☒ Such applications have been filed as follows:

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
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<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No

B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:

Application No:

Filing date:

C. U.S. Provisional Application filed within 12 months prior to this application

Serial No.

Filing Date

60/412,449

09/20/2002

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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<u>Serial No.</u>	<u>Filing Date</u>	<u>Patented</u>	<u>Status</u> <u>Pending</u>	<u>Abandoned</u>
-------------------	--------------------	-----------------	---------------------------------	------------------

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Peter J. Sgarbossa	Registration No. 25,610
Raymond Kam-On Kwong	Registration No. 37,165
Joseph Bach	Registration No. 37,771
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
B. Todd Patterson	Registration No. 37,906
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Keith M. Tackett	Registration No. 32,008
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
Moser, Patterson & Sheridan, L.L.P.
(713) 623-4844

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of **first** inventor: **BALASUBRAMANIAN RAMACHANDRAN**

Inventor's signature: _____

Date: 12/19/2003

Residence: _____

5166 Dallas Court
Santa Clara, CA 95051

Post Office Address: _____

Same as above.
U.S.A.

Country of Citizenship: INDIA

Full name of **second** inventor: **RAVI JALLEPALLY**

Inventor's signature: _____

Date: 12/19/2003

Residence: _____

1655 Betty Court
San ta Clara, CA 95051

Post Office Address: _____

Same as above.
U.S.A.

Country of Citizenship: INDIA

Full name of **third** inventor: **RYAN C. BOAS**

Inventor's signature: _____

Date: _____

Residence: _____

1981 Saint Lawrence Drive #6
Santa Clara, CA 95051

Post Office Address: _____

Same as above.
U.S.A.

Country of Citizenship: UNITED STATES

Full name of **fourth** inventor: **SUNDAR RAMAMURTHY**

Inventor's signature:  Date: 12/19/2003

Residence: 5606 Snowflake Common
Fremont, CA 94538

Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **fifth** inventor: **AMIR AL-BAYATI**

Inventor's signature:  Date: 12-22-03

Residence: 3302 Chemin De Riviere
San Jose, CA 95148

Post Office Address: Same as above.
U.S.A. Country of Citizenship: UNITED STATES

Full name of **sixth** inventor: **HOUDA GRAOUI**

Inventor's signature:  Date: 12/22/03

Residence: 1780 Morning Glory Drive
Hollister, CA 95023 3310 Cabrillo Ave
Apt 4, Santa Clara, CA 95051 HG

Post Office Address: Same as above.
U.S.A. Country of Citizenship: MOROCCO

Full name of **seventh** inventor: **JOSEPH M. SPEAR**

Inventor's signature: _____ Date: _____

Residence: 414 Sherman Drive
Scotts Valley, CA 95064

Post Office Address: Same as above
U.S.A. Country of Citizenship: UNITED STATES

(DECLARATION ENDS WITH THIS PAGE)

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- ☒ Such applications have been filed as follows:

A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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<u>Serial No.</u>	<u>Filing Date</u>
60/412,449	09/20/2002

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Inventor's signature: _____ Date: _____
Residence: 3166 Dallas Court
Santa Clara, CA 95051
Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **second** inventor: **RAVI JALLEPALLY**

Inventor's signature: _____ Date: _____
Residence: 1655 Betty Court
Santa Clara, CA 95051
Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **third** inventor: **RYAN C. BOAS**

Inventor's signature: R. C. Boas Date: 1/7/04
Residence: ~~1081 Saint Lawrence Drive #0~~ 11 Bridgman Avenue
~~Santa Clara, CA 95051~~ Watertown, MA 02472 RCB
Post Office Address: Same as above.
U.S.A. Country of Citizenship: UNITED STATES

Full name of **fourth** inventor: **SUNDAR RAMAMURTHY**

Inventor's signature: _____ Date: _____

Residence: 5606 Snowflake Common
Fremont, CA 94538

Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

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Post Office Address: Same as above.
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Full name of **sixth** inventor: **HOUDA GRAOUI**

Inventor's signature: _____ Date: _____

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Post Office Address: Same as above.
U.S.A. Country of Citizenship: MOROCCO

Full name of **seventh** inventor: **JOSEPH M. SPEAR**

Inventor's signature: _____ Date: _____

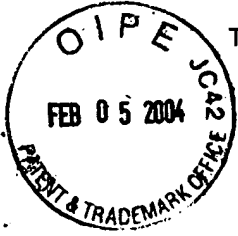
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RECD JAN 18 2004

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Filing date:

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60/412,449	09/20/2002

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Residence: 3166 Dallas Court
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Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **second** inventor: **RAVI JALLEPALLY**

Inventor's signature: _____ Date: _____
Residence: 1655 Betty Court
San ta Clara, CA 95051
Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **third** inventor: **RYAN C. BOAS**

Inventor's signature: _____ Date: _____
Residence: 1981 Saint Lawrence Drive #6
Santa Clara, CA 95051
Post Office Address: Same as above.
U.S.A. Country of Citizenship: UNITED STATES

Full name of **fourth** inventor: **SUNDAR RAMAMURTHY**

Inventor's signature: _____ Date: _____

Residence: 5606 Snowflake Common
Fremont, CA 94538

Post Office Address: Same as above.
U.S.A. Country of Citizenship: INDIA

Full name of **fifth** inventor: **AMIR AL-BAYATI**

Inventor's signature: _____ Date: _____

Residence: 3302 Chemin De Riviere
San Jose, CA 95148

Post Office Address: Same as above.
U.S.A. Country of Citizenship: UNITED STATES

Full name of **sixth** inventor: **HOUDA GRAOUI**

Inventor's signature: _____ Date: _____

Residence: 1780 Morning Glory Drive
Hollister, CA 95023

Post Office Address: Same as above.
U.S.A. Country of Citizenship: MOROCCO

Full name of **seventh** inventor: **JOSEPH M. SPEAR**

Inventor's signature: Joseph M. Spear Date: 12/22/03

Residence: 414 Sherman Drive
Scotts Valley, CA 95064 5524 NW GILLIAM LN

Post Office Address: Same as above PORTLAND, OR 97229
U.S.A. Country of Citizenship: UNITED STATES

(DECLARATION ENDS WITH THIS PAGE)